

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
25 September 2003 (25.09.2003)

PCT

(10) International Publication Number  
**WO 03/078711 A1**(51) International Patent Classification<sup>7</sup>: **D03D 1/02,**  
B60R 21/16(21) International Application Number: **PCT/IB03/00923**

(22) International Filing Date: 14 March 2003 (14.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2002-073327 15 March 2002 (15.03.2002) JP(71) Applicants (for all designated States except US): **TOYODA BOSHOKU CORPORATION** [JP/JP]; 1-banchi, 1-chome, Toyoda-cho, Kariya-shi, Aichi-p, ref., 448-8651 (JP). **TOYOTA JIDOSHA KABUSHIKI KAISHA** [JP/JP]; 1, Toyota-cho, Toyota-shi, Aichi-ken 471-8561 (JP). **TOYODA GOSEI, LTD.** [JP/JP]; 1, Aza Nagahata, Oaza Ochiai, Haruhi-cho, Nishikas, ugai-gun, Aichi-pref., 452-8564 (JP).

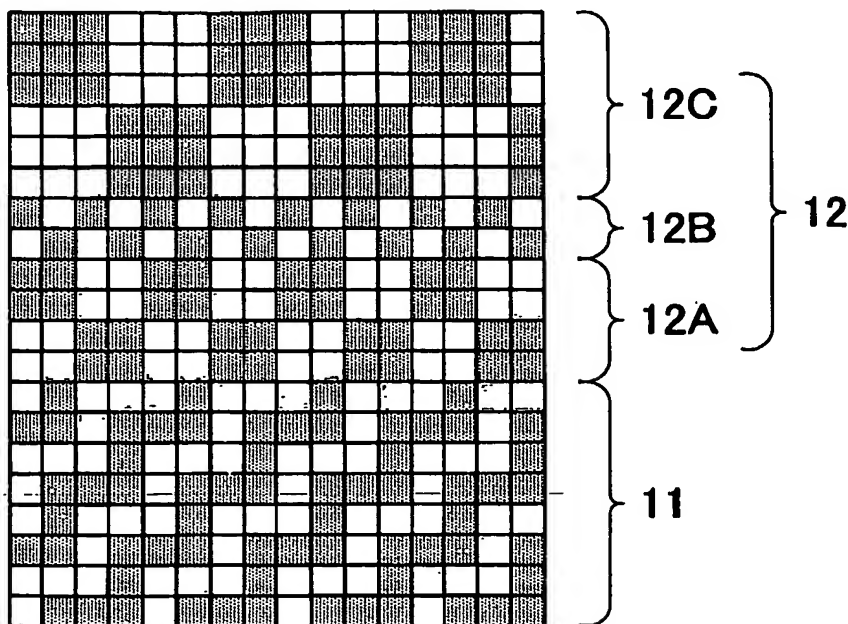
(72) Inventors; and

(75) Inventors/Applicants (for US only): **MOURI, Kazuhiko** [JP/JP]; c/o Toyoda Boshoku Corporation, 1-banchi, 1-chome, Toyoda-cho, Kariya-shi, Aichi-p, ref., 448-8651 (JP). **KATOU, Syuuichi** [JP/JP]; c/o Toyoda BoshokuCorporation, 1-banchi, 1-chome, Toyoda-cho, Kariya-shi, Aichi-p, ref., 448-8651 (JP). **SAIKI, Hiroyasu** [JP/JP]; c/o Toyoda Boshoku Corporation, 1-banchi, 1-chome, Toyoda-cho, Kariya-shi, Aichi-p, ref., 448-8651 (JP). **NAKAMURA, Eishichi** [JP/JP]; c/o Toyoda Gosei Co., LTD, 1, Aza Nagahata, Oaza Ochiai Haruhi-cho, Nishikas, gai-gun, Aichi-pref., 452-8564 (JP). **TOKU-NAGA, Shinya** [JP/JP]; c/o Toyota Jidosha Kabushiki Kaisha, 1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571 (JP).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **HOLLOW-WEAVE AIRBAG**

(57) Abstract: A hollow-weave airbag is constituted of a bag portion (11) with a 1/1 bag structure, and a closed portion (12) that has two or more weave structures and adjoins the bag portion 11. In addition, the closed portion (12) is constituted of, in sequence from the bag portion side, a first weave structure 12A with a 2/2 structure, a second weave structure 12B with a 1/1 structure, and a third weave structure with a 3/3 structure. Furthermore, the 2/2 structure is constituted of 3 to 5 weft yarns, and the 1/1 structure is constituted of 2 to 5 weft yarns.